PATENT APPLICATION
DOCKET NO.: 1263-0022US

LISTING OF THE CLAIMS

Pursuant to 37 C.F.R. §1.121, provided below is a listing of the claims of the present patent application.

Claims 1 - 24 (Canceled)

25. (Previously Presented) A memory compiler implemented on a computer readable medium for compiling at least one self-Test and repair (STAR) memory instance, comprising:

a code portion for generating a built-in self-test and repair (BISTR) processor associated with said at least one STAR memory instance; and

a code portion for generating a test and repair wrapper operable to be integrated with said at least one STAR memory instance, wherein said test and repair wrapper functions, responsive to test information scanned in by said BISTR processor, to generate address, data and command signals for effectuating at least one test with respect to said STAR memory instance.

26. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test is operable to be executed at speed using a memory clock operable with said STAR memory instance.

27. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test comprises a write operation.

28. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test comprises a read operation.

29. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test comprises a pair of read and write operations within a test clock cycle that is two memory cycles long.

30. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test comprises a back-to-back write operation.

31. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 30, wherein said back-to-back write operation is operable to be followed by a read operation.

32. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 25, wherein said at least one test comprises a back-to-back read operation.

33. (Previously Presented) The memory compiler implemented on a computer readable medium for compiling at least one STAR memory instance as set forth in claim 32, wherein said back-to-back read operation is operable to be followed by a write operation.

34. (Previously Presented) A method of testing a memory instance, comprising:

scanning test information into a test and repair wrapper integrated with said memory instance, wherein said test and repair wrapper is generated by a memory compiler used for compiling said memory instance;

providing a strobe control signal to said test and repair wrapper for signaling commencement of testing operations with respect to said memory instance;

generating, by said test and repair wrapper, at least one of an address signal, a data signal and a command signal based on said scanned test information; and

executing at least one test with respect to said memory instance responsive to said address, data and command signals generated in said test and repair wrapper.

35. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said step of scanning test information is effectuated by a built-in self-test and repair (BISTR) processor associated with said memory instance.

36. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said strobe control signal is provided to said test and repair wrapper by a built-in self-test and repair (BISTR) processor associated with said memory instance.

37. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said at least one test is executed at speed using a memory clock operable with said memory instance.

38. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said memory compiler is operable to compile multiple memory instances, each having a different aspect ratio.

39. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said memory compiler is operable to compile a memory instance selected from at least one of a static random access memory (SRAM) instance, an electrically programmable read-only memory (EPROM) instance, a dynamic random access memory (DRAM) instance, a Flash memory instance, and a register file (RF) memory instance.

40. (Previously Presented) The method of testing a memory instance as set forth in claim 34, wherein said memory compiler is operable to compile multiple memory instances, each having a test and repair wrapper integrated therewith.

41. (Previously Presented) A system for testing a memory instance, comprising:

means for scanning test information into a test and repair wrapper integrated with said memory instance, wherein said test and repair wrapper is generated by a memory compiler used for compiling said memory instance;

means for providing a strobe control signal to said test and repair wrapper for signaling commencement of testing operations with respect to said memory instance; and

means associated with said test and repair wrapper for locally generating at least one of an address signal, a data signal and a command signal based on said scanned test information, wherein a test operation is executed with respect to said memory instance responsive to said locally generated address, data and command signals.

42. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said means for scanning test information comprises a built-in self-test and repair (BISTR) processor.

43. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said means for providing a strobe control signal comprises a built-in self-test and repair (BISTR) processor.

44. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said at least one test is executed at speed using a memory clock operable with said memory instance.

45. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said memory compiler is operable to compile multiple memory instances, each having a different aspect ratio.

46. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said memory compiler is operable to compile a memory instance selected from at least one of a static random access memory (SRAM) instance, an electrically programmable read-only memory (EPROM) instance, a dynamic random access memory (DRAM) instance, a Flash memory instance, and a register file (RF) memory instance.

47. (Previously Presented) The system for testing a memory instance as set forth in claim 41, wherein said memory compiler is operable to compile multiple memory instances, each having a test and repair wrapper integrated therewith.